

## 11243400 BASS LAKE NEAR BASS LAKE, CA

San Joaquin River Basin

LOCATION.--Lat 37°17'36", long 119°31'40" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.26, T.7 S., R.22 E., Madera County, Hydrologic Unit 18040006, in Sierra National Forest, at outlet tower about 500 ft northeast of center of rock-fill dam on North Fork Willow Creek, 2.2 mi southeast of town of Bass Lake, and 5 mi north of town of North Fork.

DRAINAGE AREA.--50.4 mi<sup>2</sup>.

### WATER-STAGE RECORDS

PERIOD OF RECORD.--January 1911 to September 1982 (monthend contents only), October 1982 to current year. Bass Lake was formerly called Crane Valley Reservoir.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Pacific Gas and Electric Co.).

REMARKS.--Reservoir formed by earthfill and rockfill dam; completed in 1901 and raised in 1910. Since 1910, usable contents, 45,100 acre-ft, between elevations 3,280.22 ft, invert of outlet conduit No. 3, and 3,376.40 ft, top of spillway gates. Additional storage of 300 acre-ft not available for release. Water is released through Crane Valley Powerplant below dam for use in three small powerplants before being discharged into Kerckhoff Reservoir (station 11246650) at Wishon Powerplant. Water is diverted from South Fork Willow Creek via Browns Creek Ditch into Bass Lake near left end of dam. Madera Irrigation District has water rights to divert up to 50 ft<sup>3</sup>/s from North Fork Willow Creek through Soquel Ditch into Nelder Creek (Fresno River Basin) from October through July each year. Records, excluding extremes, represent total contents at 2400 hours. See schematic diagram of lower San Joaquin River Basin.

COOPERATION.--Records were provided by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 1354. Contents not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 45,960 acre-ft, June 17, 1923, elevation, 3,376.8 ft; minimum, 35 acre-ft, Nov. 19, 1953, elevation, 3,270.2 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 45,200 acre-ft, several days in July, elevation, 3,376.24 ft, July 29; minimum, 19,400 acre-ft, Nov. 13, elevation, 3,349.70 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)  
(Based on table provided by Pacific Gas and Electric Company, dated March 1937)

Elevation	Contents	Elevation	Contents	Elevation	Contents
3,280	290	3,320	5,584	3,360	28,121
3,290	890	3,330	8,717	3,370	38,218
3,300	1,896	3,340	13,227	3,376.4	45,410
3,310	3,404	3,350	19,663		

## 11243400 BASS LAKE NEAR BASS LAKE, CA—Continued

**RESERVOIR STORAGE, ACRE FEET**  
**WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**  
**DAILY OBSERVATION AT 2400 HOURS**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	28,200	22,600	20,400	25,700	33,000	33,900	34,000	36,900	42,700	44,800	45,100	41,200
2	27,900	22,300	20,500	25,900	33,000	33,900	34,000	37,000	43,000	44,700	45,000	41,000
3	27,600	22,100	20,500	26,200	32,900	33,900	34,000	37,100	43,200	44,700	44,900	40,800
4	27,300	21,900	20,500	26,300	32,800	33,900	34,000	37,300	43,400	44,600	44,900	40,500
5	27,100	21,700	20,500	26,400	32,800	33,900	34,100	37,900	43,700	44,500	44,800	40,300
6	26,800	21,400	20,600	26,500	32,700	33,900	34,200	38,400	43,900	44,500	44,800	40,100
7	26,500	21,100	20,800	27,400	32,700	33,800	34,300	38,500	43,900	44,500	44,800	40,000
8	26,300	20,900	21,000	28,800	32,600	33,800	34,500	39,200	44,000	44,500	44,700	39,800
9	26,000	20,700	21,100	30,000	32,500	33,800	34,600	39,900	44,100	44,600	44,600	39,600
10	25,700	20,400	21,200	31,300	32,400	33,900	34,700	40,200	44,100	44,900	44,600	39,300
11	25,400	20,200	21,300	32,400	32,400	33,900	34,800	40,400	44,100	45,000	44,500	39,100
12	25,200	20,000	21,300	32,700	32,400	33,900	34,900	40,500	44,100	45,200	44,500	38,900
13	24,900	19,400	21,400	32,600	32,400	33,900	34,900	40,700	44,100	45,200	44,500	38,700
14	24,500	19,500	21,500	32,500	32,400	33,900	34,900	40,900	44,200	45,200	44,500	38,500
15	24,500	19,600	21,600	32,400	32,500	33,900	35,100	41,600	44,300	45,100	44,500	38,300
16	24,300	19,600	21,600	32,400	32,700	33,900	35,200	42,200	44,300	45,200	44,600	38,200
17	24,400	19,700	21,700	32,300	32,700	33,800	35,300	42,400	44,300	45,100	44,500	37,900
18	24,600	19,700	21,800	32,300	32,900	33,800	35,500	42,400	44,300	45,000	44,400	37,600
19	24,900	19,800	21,800	32,300	33,000	33,900	35,500	42,400	44,300	44,900	44,200	37,500
20	25,000	19,800	21,900	32,300	33,400	34,000	35,600	42,400	44,400	44,900	43,900	37,300
21	25,000	19,800	22,000	32,200	33,900	34,500	35,600	42,400	44,500	44,900	43,600	37,100
22	24,700	19,900	22,000	32,200	34,000	35,000	35,700	42,500	44,600	44,900	43,400	36,800
23	24,500	19,900	22,100	32,200	34,000	34,800	35,800	42,400	44,700	44,900	43,100	36,600
24	24,300	19,900	22,100	32,300	34,000	34,400	36,000	42,400	44,800	44,900	42,800	36,500
25	24,100	20,000	22,200	32,400	33,900	34,200	36,000	42,300	44,900	45,000	42,600	36,300
26	24,100	20,000	22,200	32,700	33,900	34,100	36,100	42,200	44,800	45,100	42,400	36,100
27	23,900	20,200	22,300	32,800	33,900	34,000	36,200	42,200	44,800	45,100	42,200	35,900
28	23,700	20,300	22,500	33,000	33,900	34,100	36,400	42,300	44,800	45,200	41,900	35,700
29	23,500	20,300	22,700	33,000	---	34,100	36,600	42,300	44,800	45,200	41,700	35,600
30	23,200	20,400	23,600	33,000	---	34,000	36,700	42,200	44,800	45,200	41,400	35,300
31	22,800	---	25,300	33,000	---	34,000	---	42,300	---	45,100	41,300	---
Max	28,200	22,600	25,300	33,000	34,000	35,000	36,700	42,500	44,900	45,200	45,100	41,200
Min	22,800	19,400	20,400	25,700	32,400	33,800	34,000	36,900	42,700	44,500	41,300	35,300
<b>Elevation, in feet, at end of month</b>												
	3,354.02	3,350.94	3,356.92	3,365.05	3,365.99	3,366.04	3,368.61	3,373.77	3,375.87	3,376.12	3,372.84	3,367.33
<b>Change in contents, in acre-feet</b>												
	-5,600	-2,400	+4,900	+7,700	+900	+100	+2,700	+5,600	+2,500	+300	-3,800	-6,000

	Calendar Year 2004	Water Year 2005
Change in contents, in acre-feet	-500	+6,900

**11243400 BASS LAKE NEAR BASS LAKE, CA—Continued**

